

**Abstract**

A method is provided for producing a three-dimensional object by layer-by-layer solidifying of a material, solidifiable under the action of electromagnetic radiation or particle radiation at places corresponding to the cross-section of the object in the layer by using a mask-generating device which can be controlled as a function of the cross-section of the object in the respective layer for generating a mask for selectively transmitting the electromagnetic or particle radiation, in which the intensity of the beams is controlled within the areas to be irradiated.

(Fig. 1)